Abari Age



How Atari Makes a Game Console

They're doing it in Hong Kong, in Painto Rico, in Inducid and in Sunsyale, California, Doing what? Manufacturing Atani units, of course. There are assembly plants around Atam 2600, 5200, and three home computer models

facturing plant at 1195 Bornegas Avenue in Summyole. There we found hundreds of people and some very sophisticated 400 individual parts which go into every Atan 5200. In the buildincornt door, completed \$200 units were deffine a final test. before being chinned out. The nencess which turns hins of parts into functioning 5200 stame consoles does like this

Getting The Pieces Ready

Atom multi down't manufacture the individual parts that go into its video game or computer systems. The company conelectronic "guts" of an Atan unit, and

have to be formed to fit the printed circuit board and supped to the proper length and segments of the printed circuit which are

Everything In Its Place

"stapled" into

Individual electronic parts are put into their places on the non. Some parts must be inserted by hand-these are put into individual bins and given to the proper people on the assembly knes when needed. The majority of the components are inserted

Each blank pented circuit board is placed in the angeors of an auto-insertion machine, which is programmed to shift the board men in the proper order. The actual insertion something like a stapler head, punch ing component after compo-To get the right component in line and ready to be grammed machine which takes components and strings them

together in a side-by-side land of electronic ribbon. circuit board. 264 different components are put into position in

Soldering In Seconds

After auto-insertion, the board moves onto an assembly line. where more parts and sockets are put in place by hand. At this point there are 367 components on the board, ready for soldering would take hours for some poor soul with a soldering iron, but it takes only seconds the way Atam does it, with a source soldering

then a sea of molten solder. All the components are

As they come out of their solder som, the boards are washed down, dried, and placed on another assembly line, where workers

Checking It All Out

necessity where the neable m

Finally the board reaches the end of the line. How it is elaced on top of a testing unit. A technician throws a switch and a suction is created under the board. ... pulling it down onto a grid that makes contact with avery circuit on the something like a cash the report indicates anything does not check out,

goes to a special area where a team of experts fix it and then retest it thoroughly

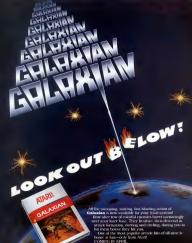
occurred and the board

5200 copyole. Even at this stage, sample units are taken from the

Ferally, consoles and controllers, power adapter and switchbox. instructional manuals and a Super Divinkout cartridge are all packed into boxes and are ready for shipment-almost. Having for one more, and several boxes are taken off shelves of completed, packed units to be opened and fully checked out as a final step before the Atan units are ready.

Children or ATABLE a common for department of their few dept. Set TABLE A. ATABLE S. OF TABLE S.

place. Atam must fest use another pro-



Club member price: \$26,95





There are plenty of surprises waiting for you in this issue of Atari Age.

Start with a super group of new Atari games, including two more RealSports games and two

arcade classics-Galaxian and Centipede!

So far, so good. . . but what's happening that's special for Atari Clish members' Glad you asked! Start by flepping the magazine open to the conter spread. There's a little present waiting there for you—a big fall-color poster, just for Clish Members! We thought the wonderful fantasy artwork that Randy Barrett created for the Phoeniz cartridge would make a great poster—and as you can see, no sooner, said than done!

For those of you who didn't order your Crazy Climber in advance, this would be a good time to get in on this Club exclusive. By the time you read this, the cartridges should be available—but

get in on mis full excessive, by me time you read mis, the cartringes should be available—only to Atan Club Members. Carago (Comber is not being sold at any store now, and it is not currently on the schedule for general release. This means that, unless Atan changes its plans, we've got this terrific home version of a hit arcside against all to unserbest.

And one more but of news about our Exclusive Cartringle Introduction—we have another one in

And one more but of news about our Exclusive Cartridge Introduction—we have another one in the works for next issue? This time it's a game which is totally different from any other home video game on the market—and that's not easy! 'fline in to the next issue of Atari Age for all the details about this uncominal Atari Club Exclusive!

Stive morgenstern



Ma Grams

To Halla Halla Halla Halla

This is going to be a "Good News-Bad News" Solution Section. First the good news. We can tell you with-

out fear of contradiction the winner of the "Picture Clues" Contest which appeared in the November(December issue of Atari Age. The stand price of an Atan 5200 Came System goes to John Mutch of Canton, Ml. John's correct answers were 1) Defender; 2) Home Run: 3) Night Driver: 4) Video Pinball: 5) Missile Command: 6) Human Cannonball. The second. third, and fourth prize winners have all been

notified by mail. Congratulations to all! Now, about that bad news. We've decided

to hold off a little longer on announcing the winner of the "Seen in a Sign" contest. As we mentioned last time, there was a lot of confusion about the rules on that one, and we've decided to check with our legal advisors before announcing the winner. Please don't call us to ask-we'll be contacting the winners directly as soon as they're determined, and their names will appear in the next Atari Age. Sorry about that!

Abari News

Help Now Available For "Raiders" Players

No question about 8. Roaders of the Lost Ark is a very error of the Lost Ark is a very form of the Lost Ark is a very form many higher, that is what they love about it—this unique game requires coll concentrasolve the puzzle and recover the cluster lost Ark of the Covenant, that if you've the cluster lost Ark of the Covenant, that if you've good news. Astar is coming to the rescue in live ways. I special tip sheet with seven helpful hints on solving the

ARI INTRODUCES POWERPUL NEW CONFUTER, unkning sleek, ultramodern styling with a full 44K RAM money (New largest ever for an Andre doug patter), the mode DOLL home computer has just arrived. New features the 12 programmable function in large and a "New late per uniter additional information if they need it will be side as program.



Another Great Summer Ahead for Atari Computer Camps

"It will benchmark my mind in urms of companies it gave me secretifying to work with off the reso of my BE, and care to vail to go have." That is how 13-year-old X-on Maze described in a speciment of Maze Companies. The companies of the management of the managemen

nominar's cimpers, and a foster of two, four, or eight work sendars. Alart Compared Camp means to man opens, serials, serialized, and substitutes, completes, sing alongs and movies. It also means floate and Plot, a small compared controlled robot called a small compared controlled robot called a compared compared compared compared to meet the controlled robot called a compared compared controlled robot called a compared compared controlled called and an order of the controlled called a compared compared compared controlled called called a compared controlled called call

To receive two full-color brechures describing the Atari Computer Camps and the camp locations for 1983, write to Atari Computer Camps, 40 E. 34th Street Department AA. New York, NY 10016, or call 1-800-847-4180 (in New York, State



New from Atari:

There's a new way to take the worry out of repairs for your Alar system—a competensive Alari Service Contract which guarantee perfect operation of your game console and controllers for a full

Aud 2000, your Aud 5000, or yo Alard home computer. A contract entities you to any parts and labe you need throughout the your. Al-Service Contracts are heared at As a speed laterdatory offer you run protect your Aust 2000 i aid yet for part all 1900 frequent price in E4455 Your Aust 2000 i Superfysiem can be covered for You can parectuse your Aust Service Contract at a speed labe Service Contract at a speed labe later 1800 frequent at the part and the beautiful and the service of the service of the later 1800 service of the service of the later 1800 service of the service of the later 1800 service of the service of the 1800 service Contract at a speed labe

🗕 New Gartridge Report

RealSportsTennis



nic feel of ceres court is unahine (buy? You're, night over—Bradoperts Ternets (vic.) some both with erit of cyclores. Belaufully annived rigues and across the court as your formwells. It still fles and bounce investedily right down is or unadow on the court below. There is vernillar, booking professional love services workload deep your accordance in receivable investigations. off it a incode smalls beam to any time be ball took neeth jobs the way you wars. And as havened play levels you must it me your soles ming by presenting the not linear business as east at masers, for a resum were proposed accuracy have shart's not denote according

RealSports Socces



Ready for instructionary and some lastic of each Them. In Readisports Society to use of 2500 and get moving!

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All an array on Certago and Control and the service of the control and the service of the control and the cont

Number of the record cognical Consequence upgretter in one field their water pass with a single long consport to buspine free with water count face moving delegate heads when water some in 700 days feel with a feel will applie inharmore will year for the comport, will applie inharmore will year for the comport, resolves the codom of the screen. For face worth of his feel couple lone in your forms with Afen Consequence.

Galarian



g, animates selected in the heats of posts barding uses game glaven engrydrice. Gasacian Sc far the Left in several of Calesian Bergard Sc far the Left in several of Calesian Bergard Sc far the Left in several of Calesian out-more they encounted for selecting selection. In Gasacian you compot amount selection of the ground Overhead about feet of Calesian modern agoet They railed a Fertinologisty coverse and may far allow Welford sealing a coverse and may far allow Welford sealing. who or one borrong run, they return to they have add and own full in enemal above. And they are they are they are they are they are they are they the refly figures will be designed and are full properties when it is also also and a second of the above and they also will one of the area when it is made it manages—above out do must it are they also will one of the above must stay them the flagging Walder and output is a manage and a manager and they are the above and they are the above they are they are they are they are they are there are 19 stack wave in Galaxian. Now there's a set of your shooring as it.



NEW ARCADE GAME ADAPTATIONS RANGE FROM STEAMY JUNGLE TO ICY ANTARCTIC

with travel form the heart of darkest Africa to the cy wester of the Atlantic Oer maters—capter series of lockey species the Atlantic Oer maters—capter series of lockey species acade games for Atlantic adopt on a horrer widor system Left start in Africa. We push on through the demic under bouth ever after for wido bears where — Africa that securit? at that figure swinging through the trace overhead? Ezerke, we

and the about presents by hostic matter. To each other the the first away through the works to hand he had recorded to each of the away through the views, then away through a crocoding oil reglected man, then a crossities which dodding these contingions of the location and finally area may be over a bent of speak-careful and analysis. A part of the control of speak-careful analysis of the control of the control of speak careful analysis. A part of the control of speak careful analysis of the control of speak careful analysis of the control of the control

ed the most popular culti-video general in the country—and Alact toll have from exactions for both the 2000 and 2200 yearest areally by outcrees. But row to time to head for the other side of the works the september, to put wonly care path believes each lose up your exakale—who is going

nce up your maklobs—we're going constront the freent South Pole firs him we're searching for penguns Actually, it's one particular

pengion we've after one who has demonstrated a some very strange behavior. And there his "PENGO" He stying to up those floating or make it. But the his open or make it. But the pengion of the his posses to make it. But

was -- what are those flying things headed his way? They look like they are! feed of the thing are they are and the things are the thing are not are flippers full. So run up the thermostat of throw another log on the fire -- Atan plens to

our living rooms later this year.

Well employers that's it for our Smeak Peek expedition that time. But don't put your geer in motibal you'll need it again next issue. We've got amothe time that you will need it again next issue.

GOOD GRIEF- CHARLIE BROWN IS COMING TO ATARII PEANUTS* pair how juned the Aint colebrily line up as man of the country line up as man of the country line up to a man of the country line up to the l

DISNEY JOINS ATARI KIDS LIBRARY

Atan has just signed on agreement with Welt Dinney Studios to create entertaining video gaines storning everyone's fevorite Disney characters.

on an eposide in the classe film **Fantasia**, **The Sorcever's Appendixe** is a milk screen game featuring Mickey Mosse
fermed as the overeage magnetizes assisted. The Mickey site
am at a sky full of blanky shooting stars with his major want.
Then it's on to the battle of the brooms, a magnot confunction
but all less in the move! The carbon who cayoftes corrolleted or.

ok amounding!
The Sorcerer's Appentice is tentarively scheduled to join
a Attan Kalli. Library in mel 1983, with more Disney fun to

THERE'S A TEMPEST BREWING FOR THE

They wall a couldn't be done—that the fantant color Quadri an graphics of Aferin revolutionery color video Temperat game outd never be brought to the horne video screen. Wed. Aranleagues now have all the state of the art sophistication of the 5800 Game System at their disposal, and with it they are consuming the challenge of brighty Temperat.

> Technically minded video game lans w appreciate how tricky this kind of adoptati

Tempest and the based new Aran release Quantum center a computer happe with vector scene graphica—the computer picts have porch, the chains a line between them. That's not the visyour TV soreen works though. It uses matter scan—each the across the width of the screen is drawn once at a time. It is lough to give a readdeplay that oring vector-outs hook, but Atlantic

prob horrhosp

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Exercised, out on the beach for an acti voleyball game. The if look incredibly lifely and look incredibly lifely and look incredibly lifely and look incredibly lifely and look incredibly lifely.



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THE COMMUNICATION MAIN

RealSports video games can capture the action, excitement and gameplay of real sports competition—but not the strangeness. We asked an editor of the famous Guinness record books to fill us in on some of the most unusual sports champions of all

What's the matter, video athletess Does the captain of the football team laugh at you because your muscles don't pop like the increable Hulk's when you make an electromic tackle? Does the local terms are with the perfect lobs and the smissing serve say you er not built to backhard? Well what do they

Ever since David knocked out record-setting performance isn't always turned in by the perfect physical specimen. Crack open a carry of the Gunness Book of Sports Records. Winners, and Champions and you'll find a healthy number of tremendous physical specimens like seven-foot-tall Wilt Chamberlain, or rocket-armed patcher Nolan Ryan with his 100-m p.h. fastball. But you'll find plenty of unlikely characters as well-oddballs whose unequaled achievements earned them a place in the pages of sporting history ... in one way or another

A SHORT BASEBALL STORY

One of these unusual Gumness record holders is Eddie Gaedel as unlikely a major

teague mesental polyer as ever stepped up to the plate. To understand how Eddie Gaeel got his shot at stardom, you first have to know something about the St. Louis Browns: a hipless Amenon League team that eventually had to move to Baltimore and change its above to the Condes to leave its bad seputation behind. The Browns were run box Bill View (formeasured for drivine with



promoters. But even Veeck had his hands full in the 1951 season By August the Boowns were 37 games out of first place and the stackum was full of empty seass Be needed to whip up some existement for his ball club—and a little publicity wouldn't be unwelcome either That's where Eddhe Gaedel came in. On Aussets

in the second game of a doubleheader against the Detroit Tigers The Browns sent a pinch

the Browns
ent a pinch
inter in as
herr leadoff batter to ope
of the first intung—it was
feet 7 inches of him. If

of the first unumg-1- was Eddie Gaedel. all 5 feet? nuches of him The 20-year old 65-pound malgat even had a special uniform with the sumber 1/8" on it. Needless to say the Tagers tract a get him throws our of the garme But Zack. Deploy the flowest numger products the property of the p

up to dat in the choich flat Week. Taught him. The Detroit pitches and catched discussed and then abandoned the idea of pitching underhand, and finally walked the smallest-ever stoke zone) on four pitches. Browns owner. Week had said that be drawe the mulget murdered for so much as swenging the bat!





TREMENDOUS SOCCER SUCCESS

Of course, being small isn't the only way favorite of Gunness readers is Willie 1 'Fatty Foulke, the Englishman who at 6 soccer competition. This awesome athlete had a temper to match his physique. He once picked up an opposing player by the heels in the middle of a game and stood him on his head. And on another occasion One of his most noted exploits occurred

armand early at the team's dinner table one evening By the time the other players showed up Foulke had already gobbled

PHENOMENAL FOOTBALL FEAT Being physically different from everyday folks isn't always the key to

getting into the secord book. In fact, sometimes it s an obstacle which makes the secord-setting achievement even more amaning That's the case with one of the Guinness football records. The world's longest field goal measured an incredible 63 yards. It was kicked by Tom Demosey of the New Orleans Saints, a man who was empoled from birth

He has one size 3 foot and the other size 10% and only half a right arm. Yet even though he kicked with the cappled foot, on which he wore a Demosey's historic kick came on the last play of the game on November

Dempsey's holder prepared to soot the ball on the New Orleans 37 yard line 63 vards away from the goal posts (which were then located on the

The Lions were laughing and snickening about the foolish-



the smiles doswhen the kick split the

upughts for a 19-17 New Orleans victory and Perhaps the Laces would not have been

laughing if they'd known about a kick that Demosey had made a few years earlier Trying he played for a semi-neo team on weekends In one of those games. Tom Demosey kicked







of the most unlikely athletes ever So if you re not built for speed or strength don't give up hope. With a lot of determination, you still might make it into the record

And if you're not willing to sweat and strain for athletic excellence, keep building up those joysticknushing muscles and your trigger-imper reflexes. It's not there now but someday there may be a Guinness record honoring the ultimate video game superstar



STEPHEN TOPPING is Senior Editor and Sports Editor of the Records Wissers and Champions





This official Asin Scoreboard displays yo for up to 8 paves —aust post them with it vided then wise them off and charge to provided them wise them off and charge to provided the wise market 1316" × 14".

Areliable only from The Ated Child



repair it yourself with the brend new Joyatox Repair NT Each bit to shade presidented to black color down for francise promotionary board, tripper spekings and way to believe directors. A few mindes with a swiewdayer in hand and your plystess is as good on new!



Ouly from The Asia Clash The bost way to keep you Alar coolinemin deal and easy to reach—the Asia Capanium Ceure your game colonie in 1st Tracky spit about with—the colonie and you re many to play about with—the colonie and you re many to play play you also core socialisation. I make a large Startly abstraces socialisation. I make along to and dust own Measurements height 20th—", wellth 20 cloth 11%". Assembly required. Bern Code Al3 540 & Bern Code Al3 540



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be several months at least till Crazy Climber reaches store shelves—it may never be released to the general public! But Club

getting it!

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can get this super new game, and only from the

lust \$26.95





One FIRST PRIZE WINNER will missible an Atom 1200 One SECOND PRIZE WINNER will choose any 10

*Tex THIRD PRIZE WINNERS will each revene an This handest POURTH PRIZE WINNERS will cach



Quanterin Enter a totally new high-energy

video game expenence-enter substorne world-capture stray atoms while escapend destruc-

The Quantum screen is an abstract scene of brilliant rolor behand it wherever it goes. Draw a complete eincle around one of the nuclear particles and it explodes for his points? The screen first fills with Electrons circling Nuclea When

It's an absolutely unique challenge-and there's a special treat for areaders who become Quantum masters. A player who beats the highest score to date can actually "draw" his



We've placed a lot of video stones, but we've move soon arcade graphics as awesome as the eve-popping scrolling

The stane itsolves challenging three-dimensional warfare on fled our planet before the lee Age, how now returned to conover it. They mount a fierce air attack, and have established bases on the surface as well-the Solvalou spacecraft you fly is

As you soar over the uscredibly detailed planet surface, you with rand fire Nasters. At the same time, strough bankets are: new-but be quick! Thre are lots of enemy installations, and

make Xerrous almost as much fun to watch as it is to play





OFFICIAL ATARI COIN VIDEO RECORDS

GANE Anterodo	PLAYER Scott Salvan	40 336-440	110382 63 tes 4 min)	Newton, PA
Anteresis Delava	Keen Gertry	2 117 530	22/2981 (5 km 25 mm)	Lake Charles LA
Einfriczope	Kee Cheraker	12 009 000	2U082(12 hrs.)	Atsendero CA
Cenapede	Damin Olion	15,207,253	1005/92	Calgary Alberta, Canada
Dig Dig	Shawn Dybdall	12 622 490	90882 (8 hrs 36 mm)	Las Vigas NV
Georgian	Reymond E. Nuclier	4 722 200	12/4/82 (27 hrs. 21 mm)	Boulder CO
Kangaron	Ken Vance	431 200	1003182 (2 hrs 27 mm)	Lis Vojis, NV
Massic Command	Ron Kaseman	63 983 475	6/20/82 (45 hrs : 30 mrs)	Upland, CA
Source David	Non-Vienne	482,620	1000/82 C by 46 earl 1	Las Vienes NV

5200 FLASH



Not everybody likes to play Atan 5200 games with friends—some folks prefer having the machine all to themselves. So if you're one of those people who bises to play alone, we're given, you fair warring—don't show anybody your new Baseball carringe. Keep the door shaw when your soaccopter takes of fine a suan-

Play 5200 Tennis against the computer don't let anybody else get a glimpse of that life-

and gonepay, And for heaven's sake, control yourself when you play Qik, the unique arcade game that Aria just brought home in a version that looks identical to the coin-op classic. The minute you invite somebody in for a game, you'll never get rid of them! And they'd call he next of the family in to see, and then



know it. you'll have a regular party going! That's the problem with Atar 5200 games everybody wants to play them! THE ATARI CLUB HAS ALL ATARI 5200 CARTRIDGES

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Calaxian	Item Code G01	\$39.95		Item Code G11	\$31,95
Missale Command	Item Code G02	\$31.95	TENNS (available A	pnf)	
Pac-Man	Item Code G06	\$39.95		Item Code G12	\$31,95
Soccer	Item Code G05	\$31.95	VANGUARD (available May)		
Space Invaders	Item Code G03	\$31.95		Item Code G13	\$30.05
Star Ralders	Item Code G04		QIX (available Marc	h)	
Centipede	Item Code C09	\$39.95		Item Code G14	\$31.95

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